| In | dex of | Claims |  |
|----|--------|--------|--|
|    |        |        |  |

| Application No.       | Applicant(s)  |
|-----------------------|---------------|
| 09/904,663            | OHTAKI, MIKIO |
| Examiner              | Art Unit      |
| Jermele M. Hollington | 2829          |

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|  | aim  | Date         |          |  |  |  |  |          | <br>Claim Date |          |          |          |  |          |              |  | :-:-:  | <u> </u> | aim    | Date           |        |  |       |          |              |          |          |          |           |          |          |          |           |
|--|--|--------------|----------|--|--|--|--|----------|----------------|----------|----------|----------|--|----------|--------------|--|--|----------|--------|----------------|--------|--|-------|----------|--------------|----------|----------|----------|-----------|----------|----------|----------|-----------|
| 1016   |  | -            | 1        | Ι  | Ι  | 1  | Ť  | т-       |                | -        | -C       |          | -  | r        |              | 1  | اهر  |          |        |                | -      |  | U U   |          | $\vdash$     |          |          |          | Jale      | 7        | _        | $\neg$   | $\dashv$  |
| Final  | Original   | 4/12/02      | 12/6/02  | 4/23/03  | 11/20/03   | 3/23/04  | 9/30/04  |          |                |          | Final    | Original | 12/6/02  | 4/23/03  | 11/20/03     | 3/23/04  |  |          |        |                |        |  | Final | Original |              |          | ,        |          |           |          |          |          |           |
|  | 1  | <del> </del> | ⊢        |  | $\vdash$   | ┢  | $\vdash$   | ╁        | -              |          |          | -EM      | 1  | 1        | 1            | 1  | ╁  |          | Н      | $\dashv$       | =      |  |       | 101      | ├            | -        | _        |          | $\dashv$  | -        | $\dashv$ | $\dashv$ |           |
|  | \$   | _            | $\vdash$ | -  |  | -  | _  | $\vdash$ | $\vdash$       | -        |          | क्रिक्ष  | Ť,   | Ą        | ¥            | ¥  | ┢  | $\vdash$ | Н      | $\dashv$       | -      |  |       | 102      | $\vdash$     | _        |          | -        |           | $\dashv$ | +        | $\dashv$ | $\dashv$  |
|  | 1  | 一            | $\vdash$ | -  | <u> </u>   | 1-   | <del>                                     </del> | ╁╌       |                |          | <u> </u> | 53       | 1 W  | A        | 1            | V  | ╁  |          | Н      |                | -      |  |       | 103      | $\vdash$     |          | -        | -        |           | $\dashv$ | +        | $\dashv$ | ᅱ         |
|  | <del>                                     </del> | <u> </u>     |          |  | <del>                                     </del> | $\vdash$   | 1  |          |                |          |          | 54       | ┢╌   |          | -            | -  | ┼  | -        | Н      | <del>-</del> † |        |  |       | 104      | -            |          | -        |          | $\dashv$  | $\dashv$ | -        | -        | $\dashv$  |
|  | 1  | ┢            |          |  | ╁  | $\vdash$   | <u> </u>   | $\vdash$ | 1              |          |          | 55       | $\vdash$   |          | $\vdash$     | -  | ╁  | ┢        | H      | 十              | -      |  |       | 105      |              |          |          |          | H         | +        |          | -+       | ⊣         |
|  | 1  | $\vdash$     | H        |  | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$ |                |          |          | 56       | ┢  | -        | -            | ╁╾   | ╁  | -        | Н      | _              | _      |  |       | 106      | -            |          |          |          | $\dashv$  | $\dashv$ | +        | $\dashv$ |           |
|  | 1  |              | $\vdash$ |  | ╁  | $\vdash$   | <u> </u>   | $\vdash$ | 1              |          | <b>-</b> | 57       | $\vdash$   | -        | <del> </del> | +  | $\vdash$   | -        | Н      | $\dashv$       | _      |  |       | 107      | -            |          |          | H        | $\dashv$  | $\dashv$ | +        | $\dashv$ |           |
|  | 1  | ╁            | H        |  | <del>                                     </del> | H  | 1  | ╁╌       |                |          |          | 58       | -  |          | -            | 1  | $\vdash$   | -        | Н      | $\dashv$       | _      |  |       | 108      | <del> </del> | -        | -        |          | $\dashv$  | $\dashv$ | _        | 寸        |           |
|  | 1  | $\vdash$     |          |  | ╁  | $\vdash$   | $\vdash$   | +-       | t              |          |          | 59       | -  | -        | ├─           | $\vdash$   | ┢  | -        | Н      | $\dashv$       |        |  |       | 109      | -            |          |          |          | $\dashv$  | $\dashv$ | <b>-</b> | 7        |           |
|  | 1D   | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | +-       | t              |          | <u> </u> | 60       | -  | _        | -            | +-   | ╁  | $\vdash$ | Н      | $\dashv$       |        |  |       | 110      | -            |          |          |          | $\dashv$  | $\dashv$ | +        | ┪        | =         |
|  | 1/1  | $\vdash$     | $\vdash$ | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | $\vdash$ | <del> </del>   |          |          | 61       | $\vdash$   | $\vdash$ | $\vdash$     | ${}^{\dagger}$                                   | $\vdash$   |          |        | $\dashv$       |        |  |       | 111      | -            | _        |          |          |           | $\dashv$ | 1        | $\dashv$ | ヿ         |
|  | 12   |              | -        | _  | <del>                                     </del> | <del>                                     </del> | $\vdash$   | ┼        | -              |          |          | 62       | $\vdash$   | $\vdash$ |              | $\vdash$   | $\vdash$   | -        | Н      | -              |        |  |       | 112      |              | -        | -        | Н        | _         | $\dashv$ | $\dashv$ | $\dashv$ | ヿ         |
| -  | 13   | _            |          |  | <u> </u>   | T  |  | <b>†</b> |                |          |          | 63       |  |          | $\vdash$     |  | <b></b> -  |          | П      | $\dashv$       |        |  |       | 113      |              |          |          |          | 7         | 7        | 7        | $\dashv$ | =         |
|  | 14   | t            |          |  | t  | T  | t  | T        |                |          | · · · ·  | 64       | Ι-   | <u> </u> |              | 1  | t  |          | H      | +              |        |  |       | 114      |              |          |          |          |           | $\dashv$ | 十        | $\dashv$ | $\exists$ |
|  | 15   |              | $\vdash$ |  | t  | $\vdash$   | 1  | T        |                |          |          | 65       | $\vdash$   |          | $\vdash$     | 1  | T  |          | Н      |                |        |  |       | 115      |              |          |          |          | $\dashv$  | $\neg$   | $\dashv$ | 7        |           |
|  | 16   | $\vdash$     |          | -  | $\vdash$   | $\vdash$   | <u> </u>   | $\vdash$ | H              |          |          | 66       | $\vdash$   |          |              | $\vdash$   | $\vdash$   |          | Н      | $\dashv$       |        |  |       | 116      | $\vdash$     | $\vdash$ |          |          | $\dashv$  | $\dashv$ | $\dashv$ | 7        | $\dashv$  |
|  | 17   | $\vdash$     | $\vdash$ |  | $\vdash$   | $\vdash$   | <del>                                     </del> | ╁        | H              |          |          | 67       |  |          |              | $t^-$  | $\vdash$   |          | Н      | $\dashv$       |        |  |       | 117      |              | $\vdash$ |          |          | $\dashv$  | $\dashv$ | $\dashv$ | -+       | ᅱ         |
|  | 1B   |              | $\vdash$ |  | $\vdash$   | $\vdash$   | <u> </u>   | ┢        |                |          | 1        | 68       | ┢  | $\vdash$ | H            | $t^-$  | $\vdash$   | Н        | Н      | $\dashv$       |        |  |       | 118      |              | $\vdash$ |          |          | $\dashv$  | $\dashv$ | +        | $\dashv$ | ヿ         |
|  | 19   |              | $\vdash$ |  | $\vdash$   |  | $\vdash$   |          |                |          |          | 69       |  |          |              | t  | $\vdash$   |          | Н      | $\dashv$       |        |  |       | 119      |              | $\vdash$ |          |          | $\neg$    | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|  | 20   | $\vdash$     | $\vdash$ | -  | $\vdash$   | $\vdash$   |  | T        |                |          |          | 70       |  | $\vdash$ |              | $\vdash$   | $\vdash$   |          | Н      | $\dashv$       |        |  |       | 120      |              |          | _        | $\vdash$ | _         | $\dashv$ | $\dashv$ | $\dashv$ | ヿ         |
| 1  | 21   | 1            | 1        | 1  | 1  | 1  | =  |          |                |          |          | 71       |  |          |              | $\vdash$   | $\vdash$   | $\vdash$ | Н      | $\dashv$       |        |  |       | 121      |              | _        |          |          | $\neg$    | _        | $\dashv$ | $\dashv$ | ヿ         |
| 2  | 22   | Ť            | Η        | Ť  | i  | ì  | 1  | $\vdash$ | $\vdash$       |          |          | 72       | H  | $\vdash$ |              | t  | $\vdash$   | $\vdash$ | H      |                |        |  |       | 122      |              | $\vdash$ | _        | _        | $\dashv$  | $\neg$   | $\dashv$ | +        | $\dashv$  |
| 3  | 23   | Ħ            | Н        | Н  | ╫  | H  | H  | 1        |                |          |          | 73       | _  | _        | $\vdash$     | 1-   | $\vdash$   | -        |        | $\dashv$       | -      |  |       | 123      |              | $\vdash$ | $\vdash$ | -        | $\dashv$  | -        | _        | 一        | ᅥ         |
| 4  | 24   | Ħ            | H        | H  | 1  | 1  | Ħ  | †        | $\vdash$       |          |          | 74       | <del>                                     </del> |          | _            | 1-   | 一  | $\vdash$ |        | $\neg$         |        |  |       | 124      | Н            | _        |          | _        |           | $\neg$   | _        | $\dashv$ | $\dashv$  |
| 5  | 25   | 1            | T        | Н  | Ħ  | Ħ  | Ħ  | T        |                | _        |          | 75       | $\vdash$   | _        |              | 1  | ┢  |          | Н      | _              | _      |  |       | 125      |              |          |          |          |           | T        | 7        | 7        | ヿ         |
| 6  | 26   | $\dagger$    | $\top$   | H  | Ħ  | Ħ  | Ħ  | Т        | 1              |          |          | 76       | $\vdash$   | $\vdash$ | _            | t —  | $\vdash$   |          | Н      | $\dashv$       |        |  |       | 126      |              |          |          |          | $\neg$    | 寸        | 7        | 7        | ヿ         |
| 7  | 27   | V            | 1,       | 4  | \$   | ţ  | \$   |          |                |          |          | 77       | $\vdash$   | -        | -            | 1  | <del>                                     </del> |          | Н      | _              |        |  |       | 127      | -            |          |          |          | $\dashv$  | $\dashv$ | 十        | $\dashv$ | 一         |
| <u> </u>   |  | \ \ \        | Ť        | Ť  | Ť  | ľ  | ×  | $\vdash$ | $\vdash$       | _        |          | 78       | Н  | 1        | $\vdash$     | 1  | <del>                                     </del> |          | Н      | _              | _      |  |       | 128      |              | $\vdash$ |          |          | $\neg$    | $\dashv$ | 十        | $\dashv$ | $\dashv$  |
|  | 75   |              |          | _  | $\vdash$   | $\vdash$   | T-   | $\vdash$ | <u> </u>       |          |          | 79       | _  |          | _            | <del>                                     </del> | <del>                                     </del> |          |        | $\neg$         |        |  |       | 129      |              |          |          |          | $\exists$ | T        | $\dashv$ | $\dashv$ | ヿ         |
| <del>                                     </del> | 30   | _            |          | _  | †  | T  | m  | $\vdash$ | $\vdash$       |          |          | 80       | <del>                                     </del> |          | 1            | <u> </u>   |  |          | Н      | 寸              |        |  |       | 130      |              |          |          |          | T         | 7        | 7        | $\dashv$ | ヿ         |
|  | 31   | _            |          |  |  |  | -  |          |                |          |          | 81       |  |          |              | 1  |  |          | Н      | $\dashv$       |        |  |       | 131      |              |          |          |          | $\neg$    | 寸        | ╅        | $\dashv$ | ヿ         |
|  | 32   |              |          |  | T  | $\vdash$   | T  | T        | İ              |          |          | 82       |  |          |              | T  |  |          | Н      | $\neg$         |        |  |       | 132      |              |          |          |          |           | _        | ╅        | $\dashv$ | ⊣         |
|  | 333  |              |          |  | t  | T  | T  | $\vdash$ | İ              |          |          | 83       |  |          |              | t  | t  |          | П      | 一              |        |  | -     | 133      |              |          |          |          | $\neg$    |          | 寸        | ┪        | ヿ         |
|  | 34   |              |          |  | Ħ  | T  |  | $\vdash$ | t              |          |          | 84       |  |          |              | 1  | ┢  |          | П      | $\neg$         |        |  |       | 134      |              |          | Г        |          | $\neg$    | T        | 7        | _        | ヿ゙        |
|  | **************************************           |              |          |  |  | T  |  | Π        | П              |          |          | 85       |  |          |              |  |  |          | П      | $\neg$         |        |  |       | 135      |              | П        |          |          | $\neg$    | ヿ        | 7        | $\neg$   | ヿ         |
|  | 36   |              |          | İ  |  |  |  |          |                |          |          | 86       |  |          |              | 1  | Т  |          | П      | $\neg$         |        |  |       | 136      |              |          |          | _        |           | $\neg$   | $\neg$   | ヿ        | ┑         |
|  | 37   |              |          |  | Г  |  |  |          |                |          |          | 87       | Т  |          |              |  |  |          | П      |                |        |  |       | 137      |              |          |          |          |           |          | T        |          | ╗         |
|  | 38   |              |          |  |  | T  |  | Т        |                |          |          | 88       | Г  |          |              |  |  |          | П      |                |        |  |       | 138      |              |          |          |          | $\neg$    |          | T        | ヿ        | ヿ         |
| -  | 39   |              |          |  |  |  |  |          |                |          |          | 89       | Г  |          |              |  | $\vdash$   |          | П      |                |        |  |       | 139      |              |          |          |          | $\neg$    | $\neg$   | ヿ        | 一        | $\neg$    |
|  | 40   |              |          | Г  |  | <del>                                     </del> |  | $\top$   |                |          |          | 90       | Г  | П        | Γ            | 1  |  |          | П      |                |        |  |       | 140      |              |          | Г        | П        | $\neg$    | $\dashv$ | $\dashv$ | 1        | $\dashv$  |
|  | 41   | T            |          |  | <u> </u>   |  | Г  | T        | $\top$         |          |          | 91       | Г  |          | Γ            |  | T  |          | М      | _              |        |  |       | 141      |              |          |          | $\Box$   |           | 一        | $\dashv$ | $\dashv$ | $\dashv$  |
|  | 42   | T            | 1        | 1  | 1  | $\vdash$   | П  | T        | $\vdash$       | $\vdash$ |          | 92       |  | П        | Γ            | 1  | 1  |          | М      |                |        |  |       | 142      | Г            |          | Г        | П        |           | $\dashv$ | $\dashv$ | ┪        | $\dashv$  |
|  | 48   |              | 1        | 1  | 1  |  |  | T        | $\vdash$       | П        | <u> </u> | 93       |  |          |              |  |  | T        | П      |                |        |  |       | 143      |              |          |          |          |           | $\dashv$ | $\dashv$ | 1        | $\dashv$  |
| 8  | 44   |              | $\sqcap$ | 1  | Ħ  | =  | t  | 1        |                |          |          | 94       |  |          |              |  | t  |          | П      |                |        |  | -     | 144      | _            |          |          |          |           | $\neg$   | $\dashv$ | ┪        | $\dashv$  |
| 9  | 45   | Т            | 1        | H  | † <b>†</b>                                       | T  |  |          | П              | Н        | <b> </b> | 95       | Т  | Т        | Г            | T  | <u> </u>   |          | $\Box$ |                | $\neg$ |  |       | 145      | Г            | П        |          | П        |           | $\neg$   | $\dashv$ | $\neg$   | $\dashv$  |
| 10   | 46   | ļ .          | П        | H  | 11   |  | T  | T        | $\vdash$       | П        | <u> </u> | 96       | Г  |          |              | T  | $\vdash$   |          | П      | $\neg$         |        |  |       | 146      | Ι            | Г        | T        | П        |           |          | $\dashv$ |          | $\dashv$  |
| 11   | 47   |              | П        | Π  | T  | Ħ  |  | 1        | T              |          |          | 97       |  |          | Γ            | T  |  | Τ        | П      |                |        |  |       | 147      |              |          |          |          |           |          | 寸        | $\neg$   | $\dashv$  |
| 12   | 48   | T            | π        | Π  | 1  | $\sqcap$   |  | 1        | П              |          |          | 98       |  |          |              | Т  |  | $\vdash$ | П      | $\dashv$       |        |  |       | 148      |              |          |          | $\Box$   | $\neg$    | $\neg$   | 寸        | 寸        | $\dashv$  |
| 13   | 49   | Г            | П        | П  | П  | Π  | Π  | 1        | П              |          |          | 99       |  |          |              | 1  | Γ  |          |        |                |        |  |       | 149      |              |          |          |          |           |          | $\neg$   | ┪        | $\dashv$  |
| 14   | 50   |              | 4        | ¥  | A  | A  |  | T        | П              |          |          | 100      | T  |          |              | Ī  |  |          | П      |                |        |  |       | 150      |              | Г        |          |          |           |          | $\neg$   | ┪        | $\dashv$  |
|  |  | Ц.           | · -      | <u>ٺ</u>   | 1.4  | į ¥  |  |          | ٠              | ب        | <br>L    |          |  | ш.       | ١            | 1  | 1.   |          |        |                |        |  |       |          |              |          |          |          |           |          |          |          |           |